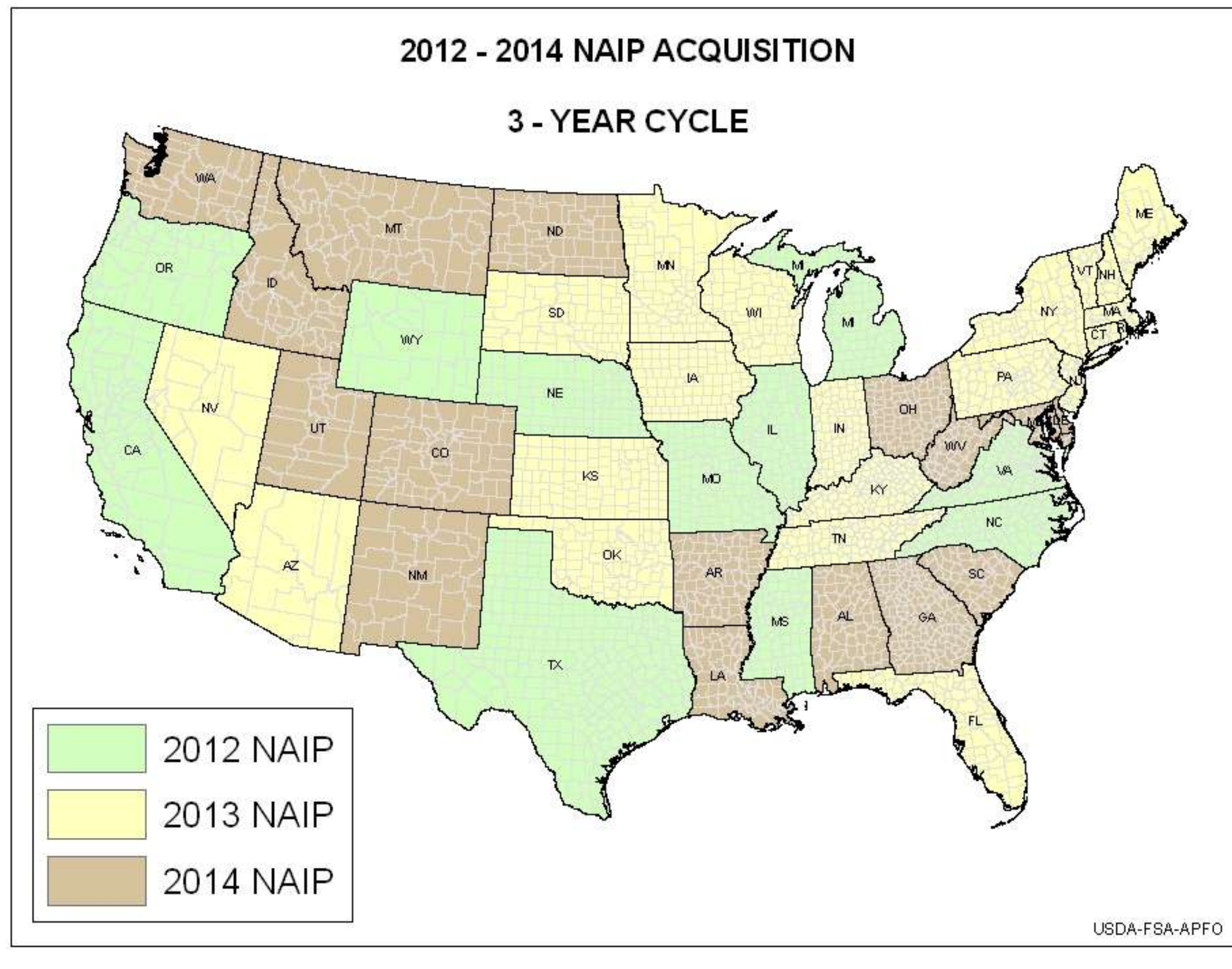


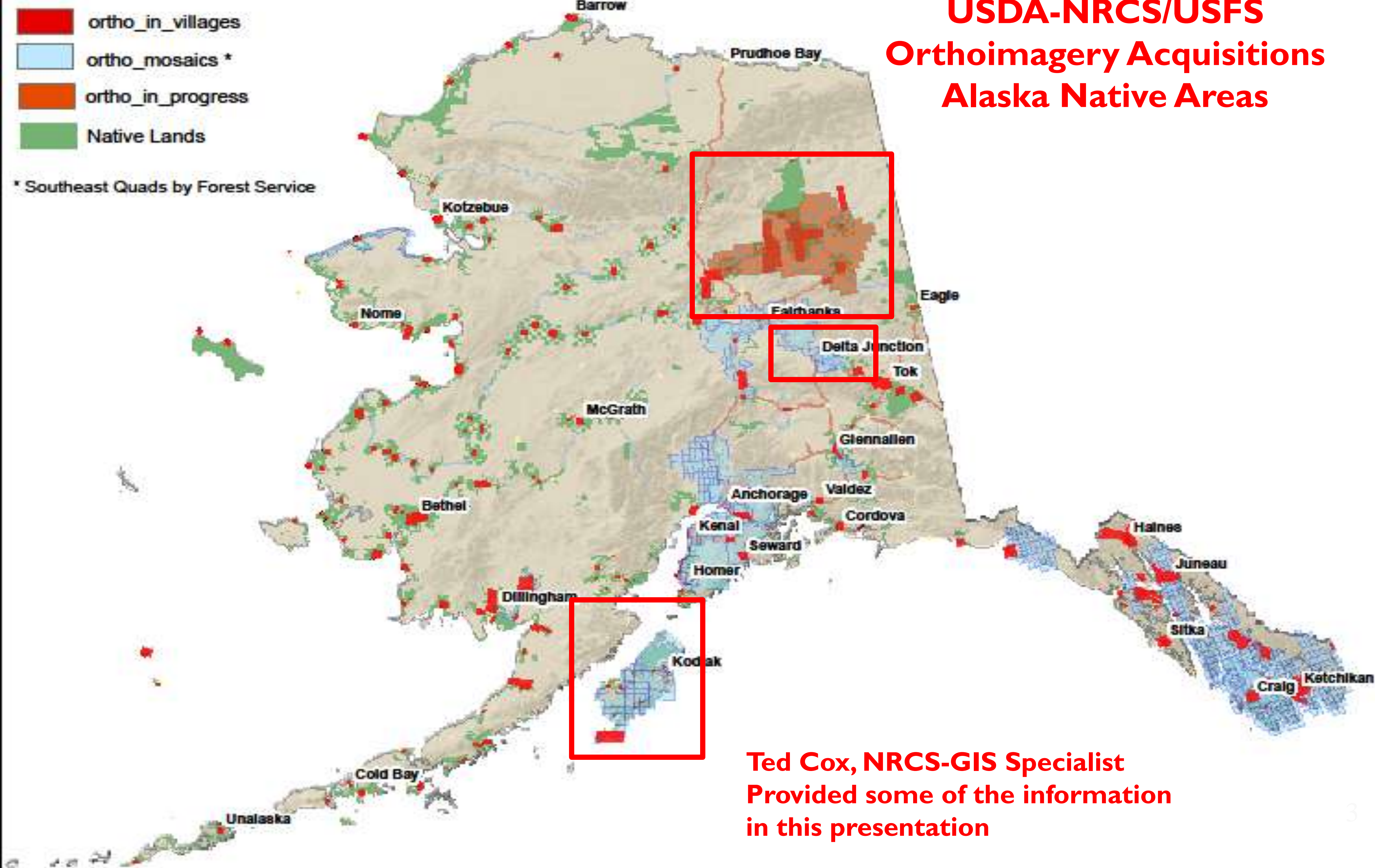
USDA-NRCS Agency Briefing
Hawaii, Pacific Basin, Alaska and Puerto Rico

USDA Imagery Planning and Coordination Meeting
December 7th, 2011



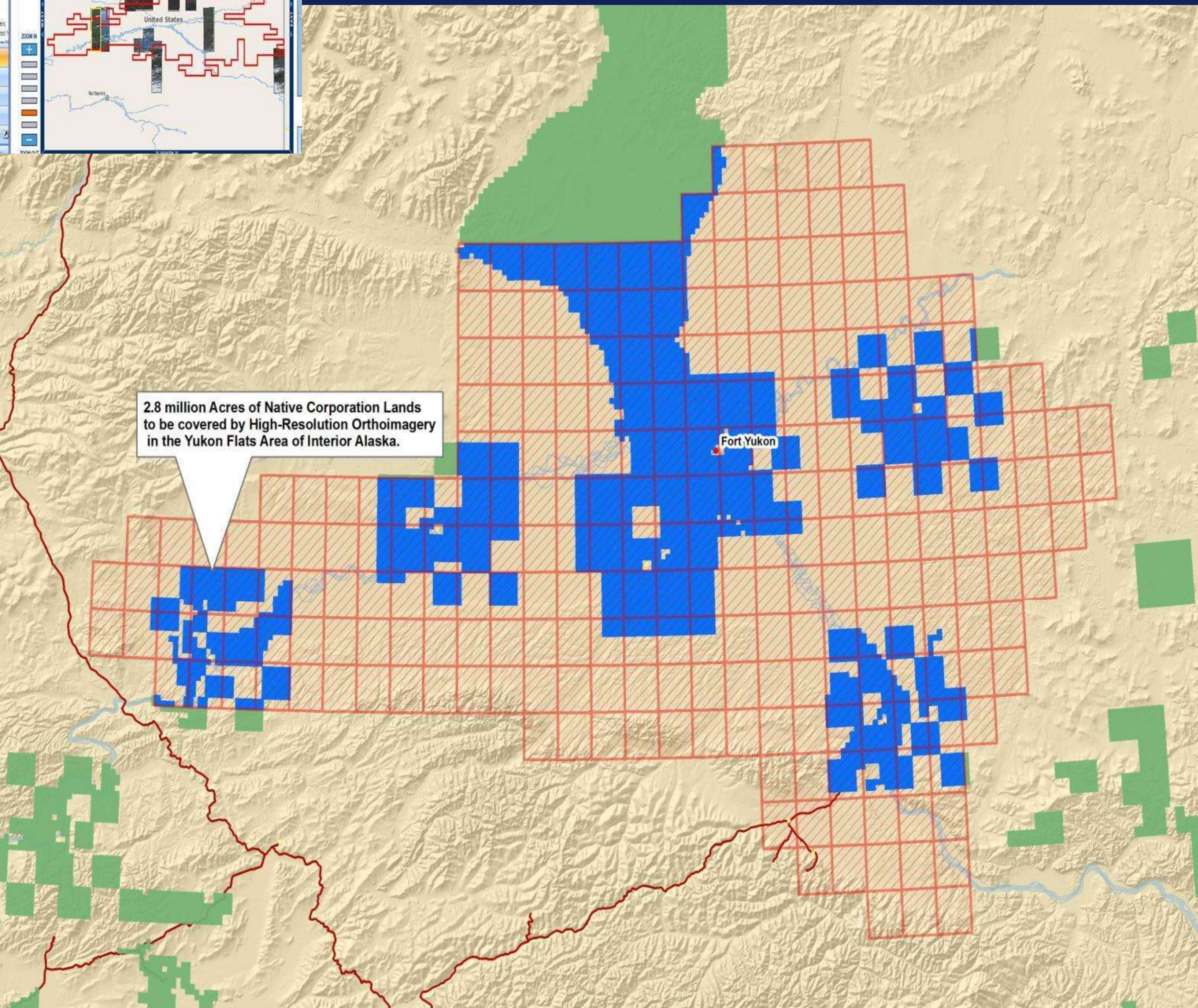
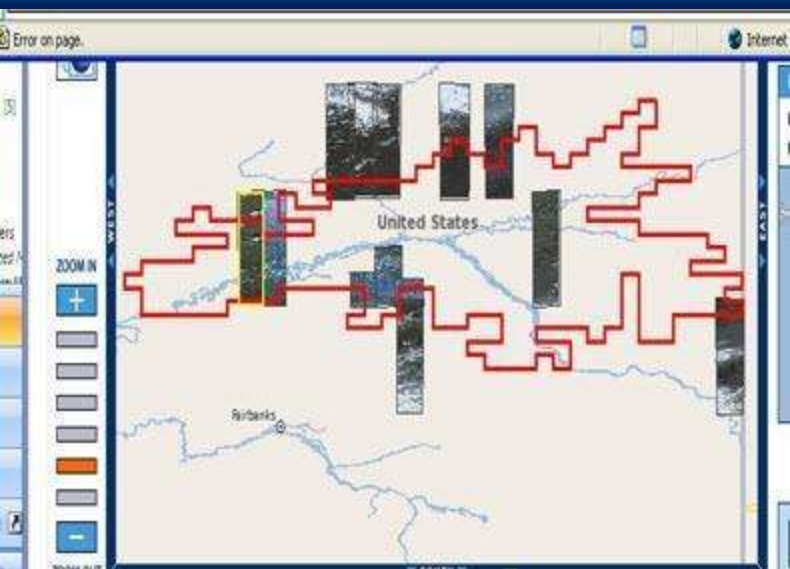
- **Dan Good (NRCS, National Geospatial Leader)** has submitted a request for **NAIP 2012** for \$ 1,900,000.
- Dan is cautiously optimistic that **NRCS** will be able to fully fund at partner share for 2012.
- **NAIP Orthoimagery via WMS** has been selected for **Conservation Data Streamlining Initiative (CDSI)**.

USDA-NRCS/USFS Orthoimagery Acquisitions Alaska Native Areas



Ted Cox, NRCS-GIS Specialist
Provided some of the information
in this presentation

Yukon Flats, Alaska



USDA-NRCS

USDA-NRCS has issued a contract for Orthoimagery in the Yukon Flats area.

- AOI = 51,000 Sq, Miles

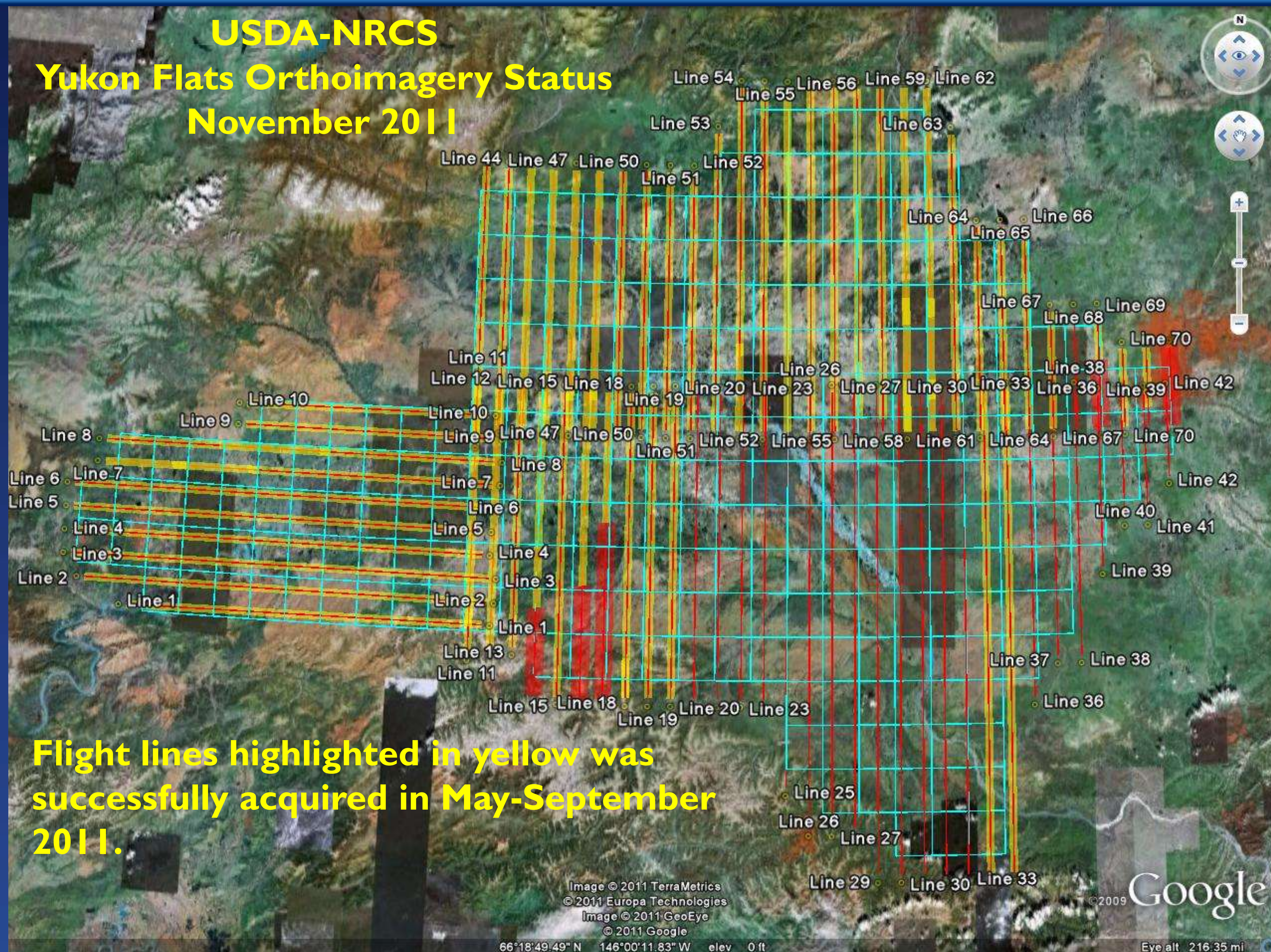
- One Meter, Four Band Orthoimagery

- New DSM DEM's to be generated and used for Ortho-rectification.

- \$ 375,000 for Ortho's and DEM's

- To be used by USDA, USGS, BLM and Native Alaskans.

USDA-NRCS Yukon Flats Orthoimagery Status November 2011



USDA-NRCS Orthoimagery, 2004 - 2011

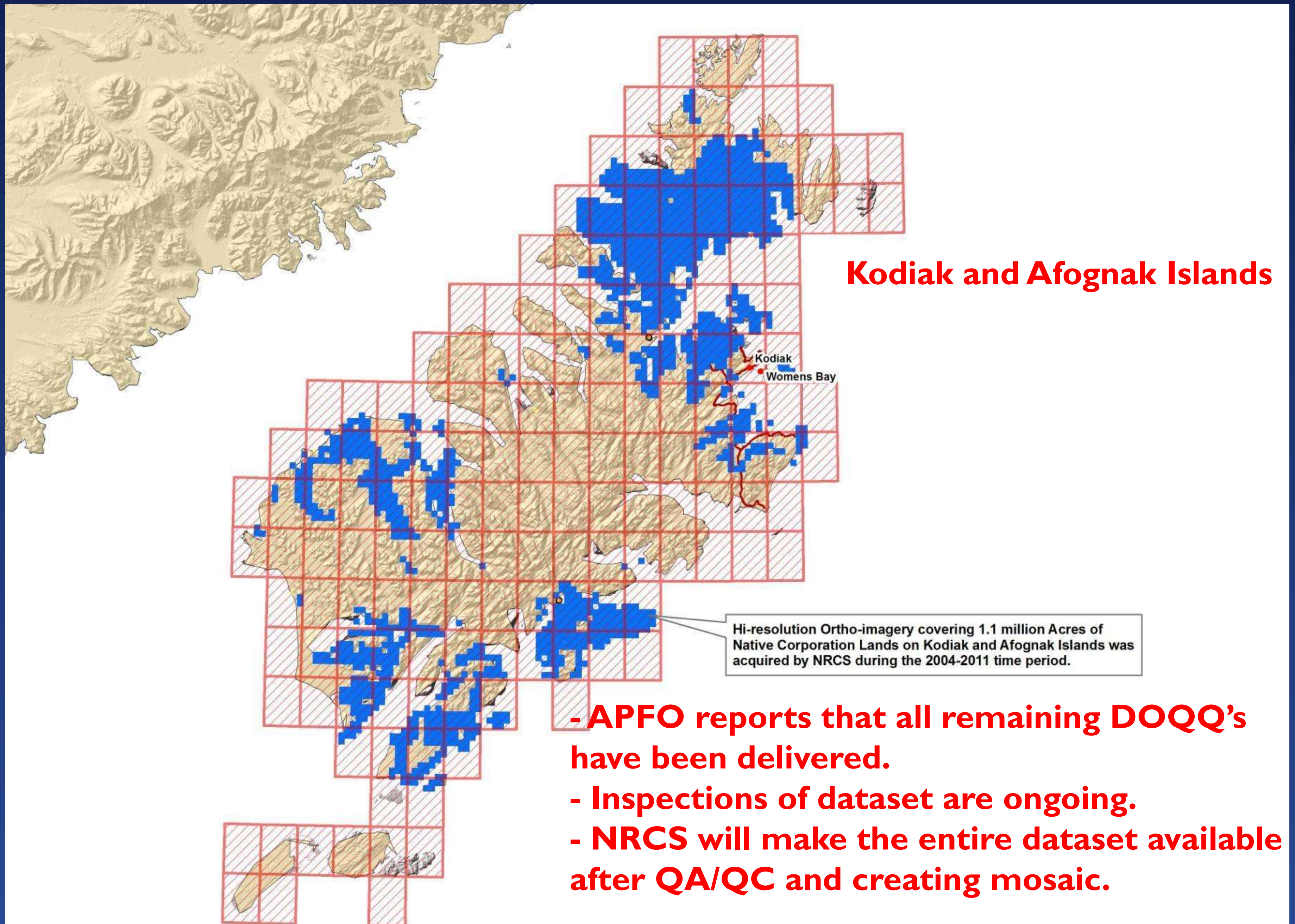
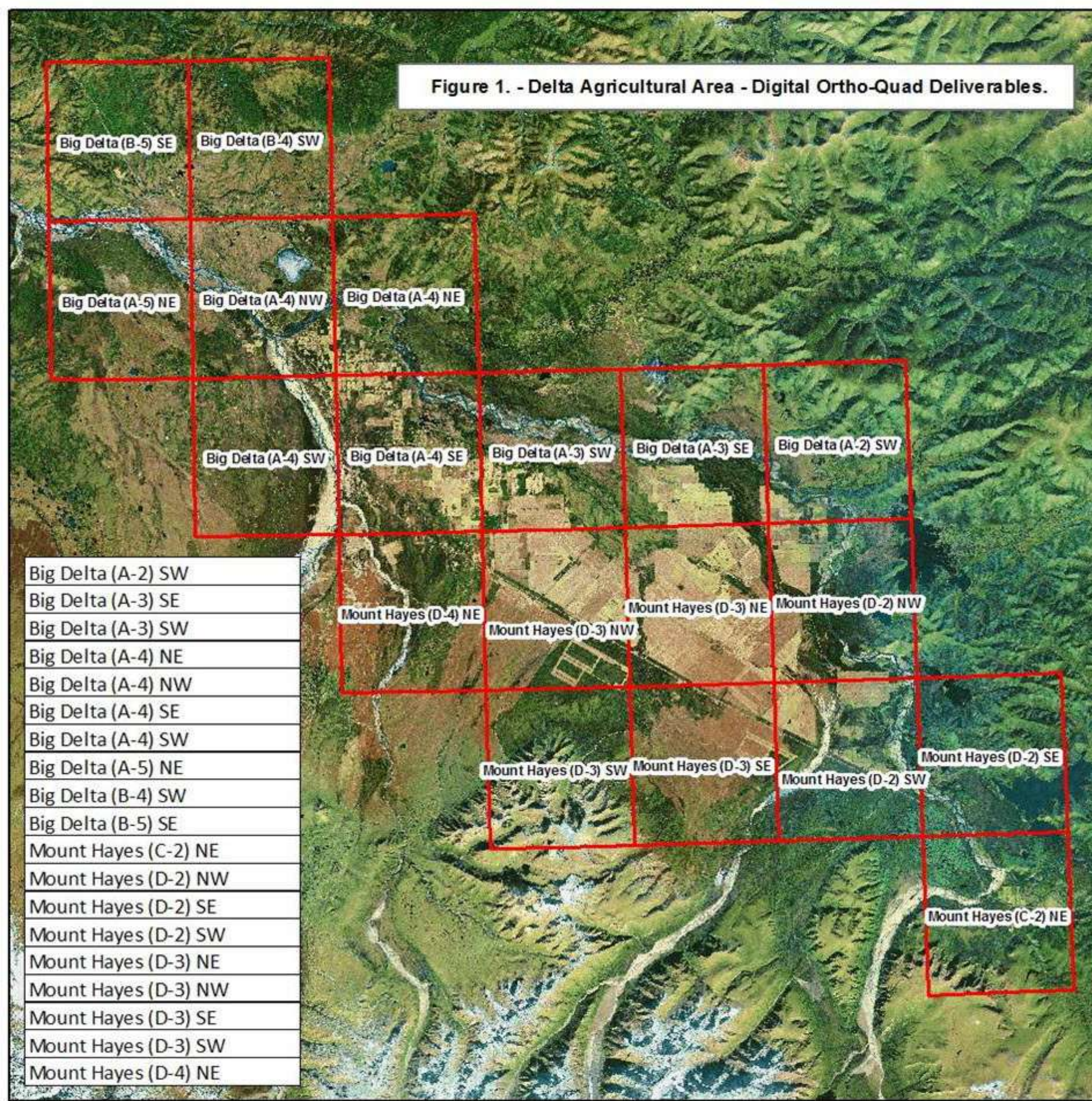
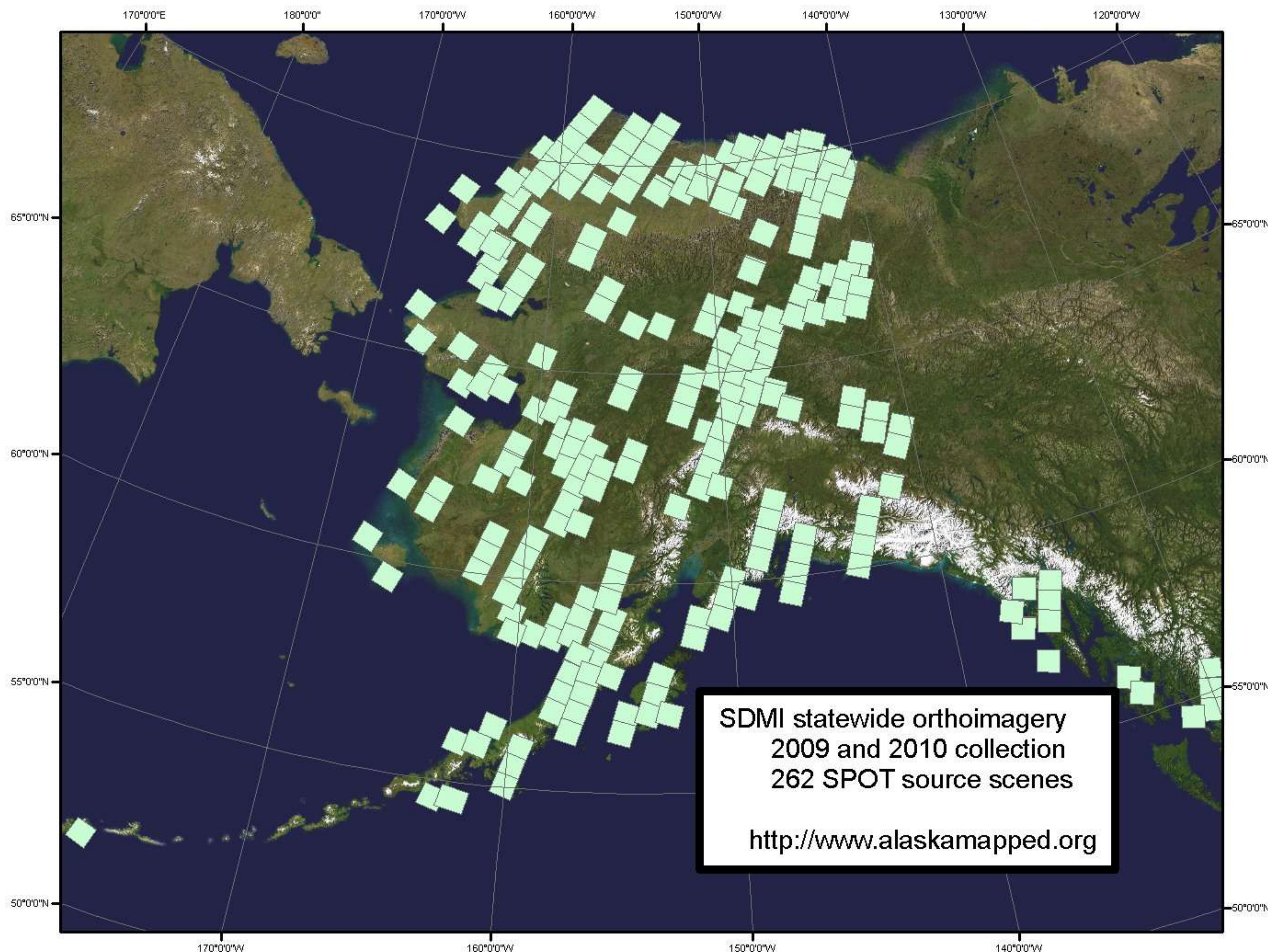


Figure 1. - Delta Agricultural Area - Digital Ortho-Quad Deliverables.



NRCS 2011 Orthoimagery Delta Junction, Alaska

- Contracted via University of Alaska, Fairbanks
- Aerial Acquisition, 1 Meter or higher
- 4 Band
- 1:12,000 accuracy
- Public Domain
- Contract = \$ 100,000



Spot 4/5 Issues in Alaska for USDA-NRCS USDA-FAS/USGS Option

- **USDA-NRCS has been asked to contribute towards a USGS-FAS/USGS Spot 4/5 buy for \$ 250,000 in 2012 for Alaska.**
- **Contribution is for entire archive collected in 2012. Collection is made from May 1st to September 1st.**
- **Contribution (250K) is to be made annually (per calendar year).**
- **Multi-Spectral and Panchromatic data is the delivery specification. Pan Sharpen data is not included!**
- **MS/Pan data will be Ortho-rectified using new automated procedure at EDC. Procedure is under development.**

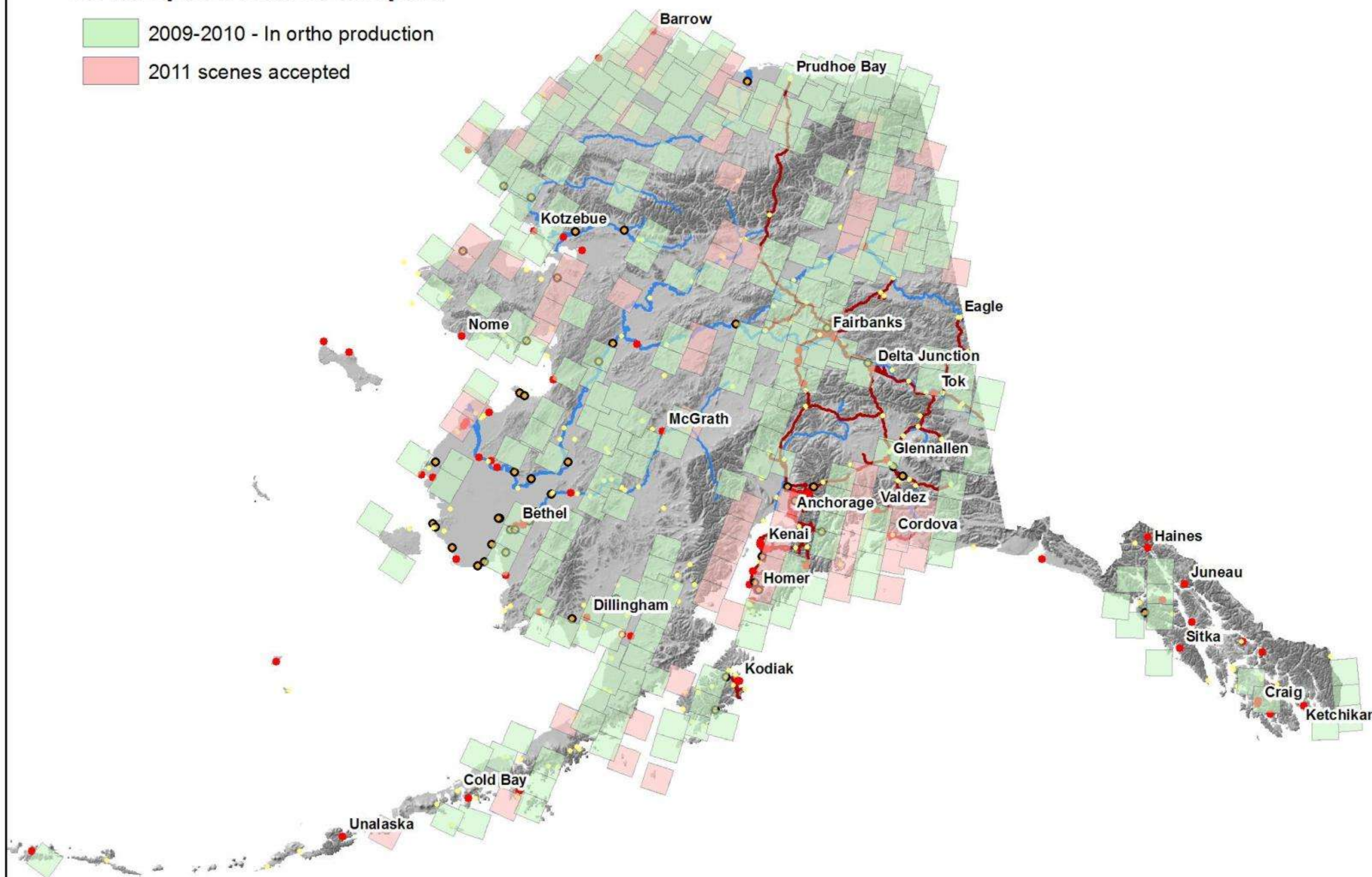
Spot 4/5 Issues in Alaska for USDA-NRCS

SDMI Option

- **Phase I of the Alaska SDMI has already funded complete acquisition of Alaska (2009-2013) with Spot 5 (2.5 Meter Pan Sharpen GSD). Phase II requires additional funding.**
- **SDMI has complete tasking of the Spot 5 sensor in Alaska.**
- **2009-2011 successfully acquired 40% of the state.**
- **Product to be delivered is Multi-Spectral, Pan and Pan-Sharpen Orthoimagery.**
- **Ortho-rectification is being done by Fugro-EarthData**
- **License is similar to Civil Government (Federal, State, Local, Tribal) but includes NPO's.**

SDMI Spot Scenes Accepted

- 2009-2010 - In ortho production
- 2011 scenes accepted



Alaska SDMI Specifications for Spot 5

- 1:24,000 NMAS accuracy – 12.2-m CE90
- 2.5-meter spatial resolution
- 10- Meter Multi-Spectral, Pan Sharpened to 2.5-m GSD
- Three statewide 2.5-m mosaics
 - Pseudo natural color
 - CIR
 - Panchromatic
- Entire state – 1.56 million sq-km
- 600,000+ sq-km of new collections in 2009 & 2010
- Five seasons of collection (2009-2013): project completion – 2014
- Aero-Metric prime – project management and QA
 - Astrium / Spot Image – source data
 - Fugro EarthData – Orthomosaic processing

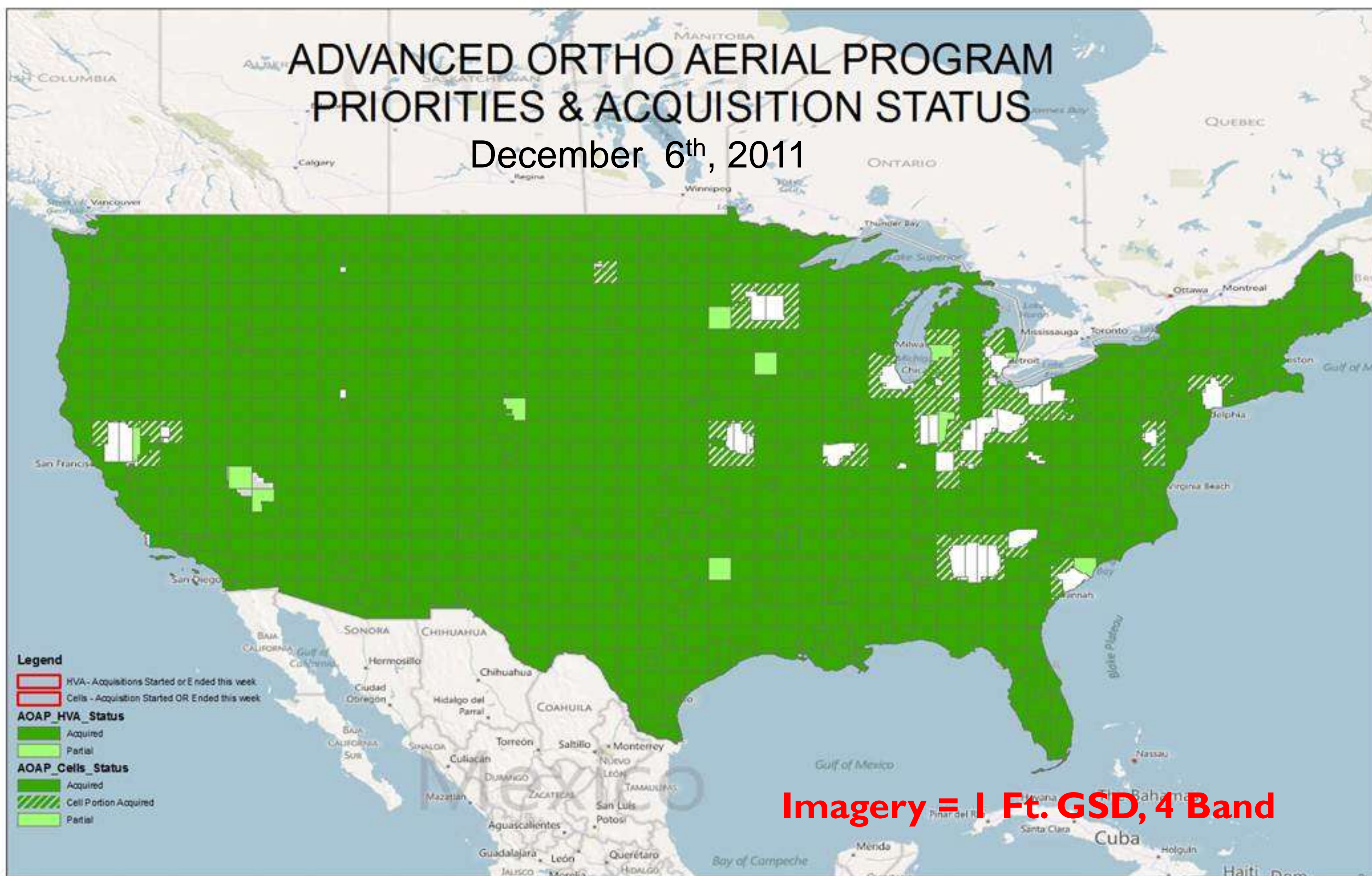
Spot 4/5 Issues in Alaska for USDA-NRCS

- **After collecting all available information USDA-NRCS will support the SDMI Spot 5 acquisition.**
- **Phase I of the SDMI acquisition is already fully funded. NRCS-Alaska made a contribution.**
- **NRCS is principle interested in the Best Available Pan Sharpen Imagery for a given location/tile in Alaska.**
- **Limitations in funding put an emphasis on other Orthoimagery/DEM priorities.**

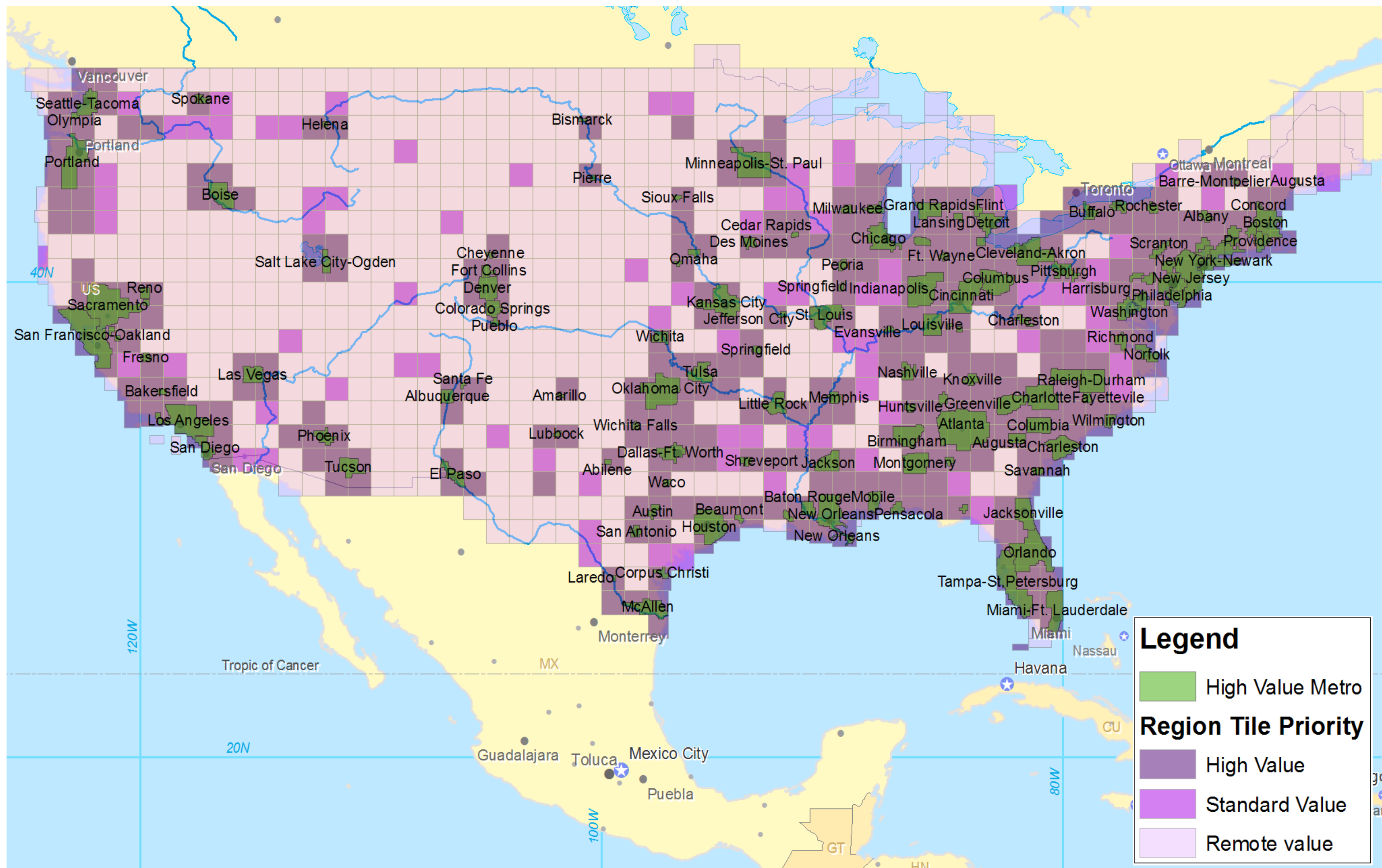
DigitalGlobe AOAP Status for US 48 and Alaska

ADVANCED ORTHO AERIAL PROGRAM PRIORITIES & ACQUISITION STATUS

December 6th, 2011



DigitalGlobe Clear30 Program USA Block Prioritization



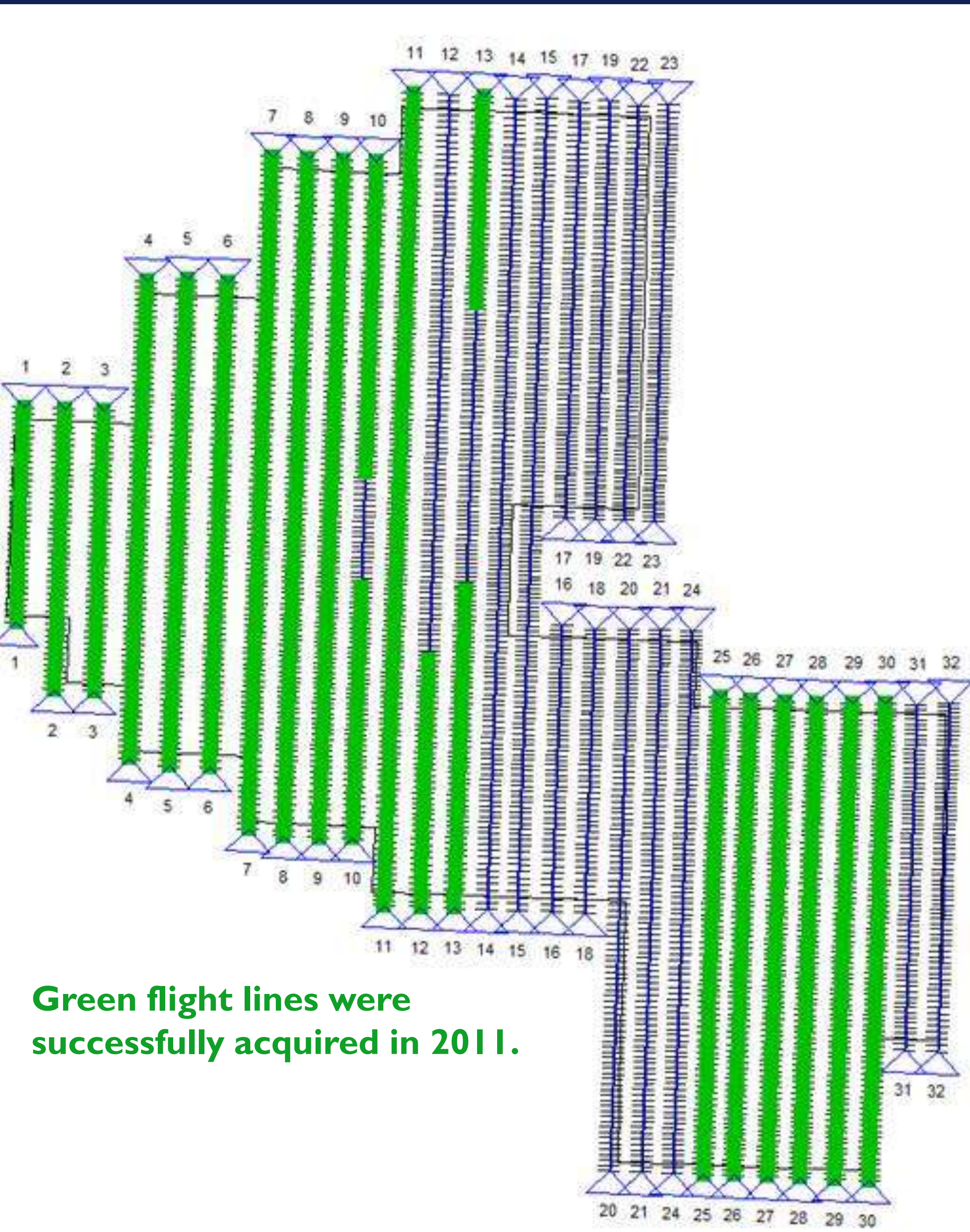
AOAP Program Accuracy Specification

Class of Block	Radial accuracy @ 95% confidence	Equivalent RMSE in X and Y
High-Value Area	10ft and 15 ft	4ft and 6 ft
High-Value Block	10ft and 15 ft	4ft and 6 ft
Standard Block	15 ft	6 ft
Remote Block	15 and 20 ft	6 and 8 ft

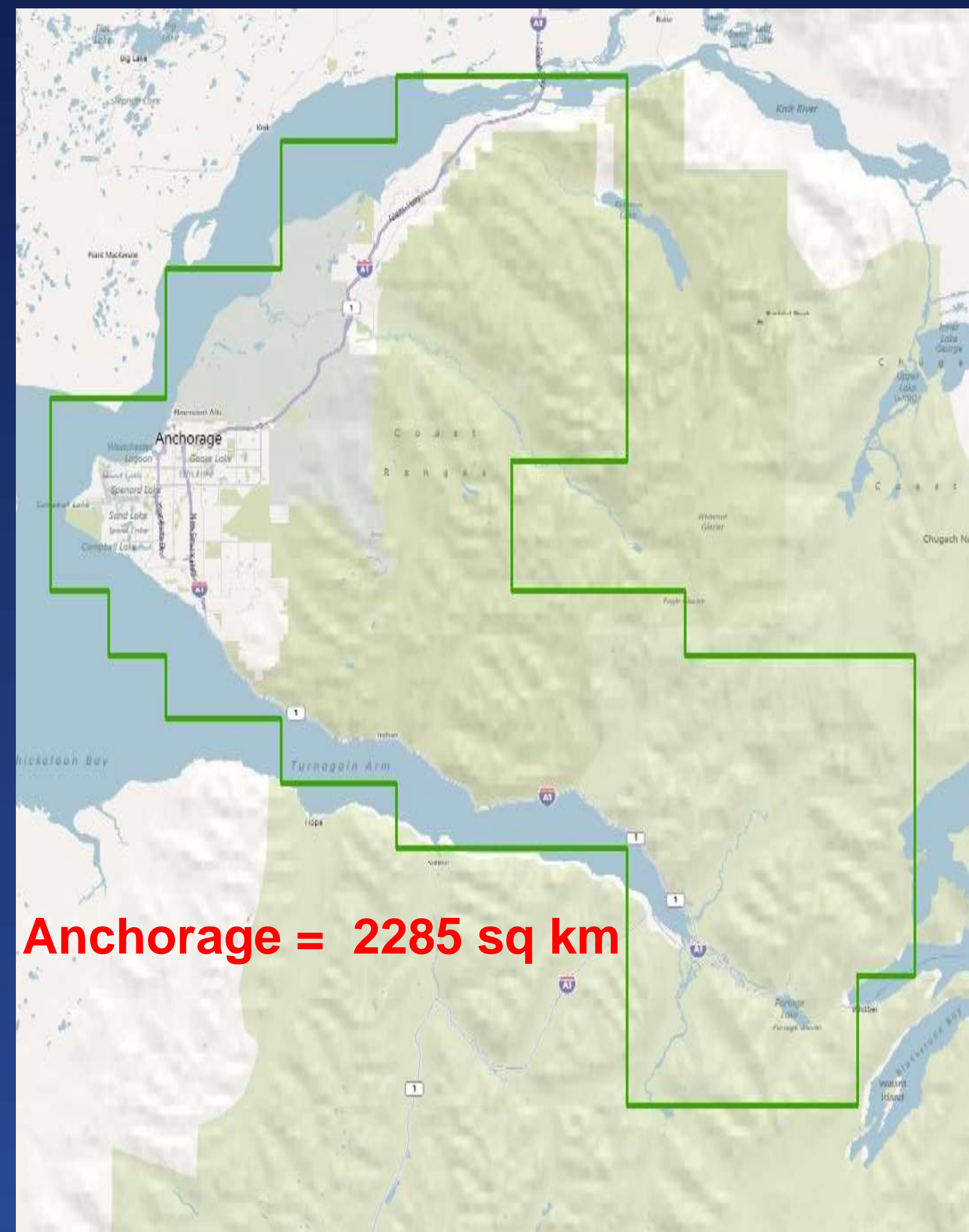
IFTN High Resolution Horizontal Accuracy (1 Ft. GSD = 5 Ft) (.5 Ft. GSD = 2.5 Ft.)

At least 10% of the Clear30 Program area will meet the 10ft radial accuracy standard at 95%, and will include all of the Dense Urban Core, and as much High Value Areas as possible until such time as 10% of the total land area is reached, or all of the HV areas have been utilized.

AOAP Anchorage, Alaska



Green flight lines were
successfully acquired in 2011.



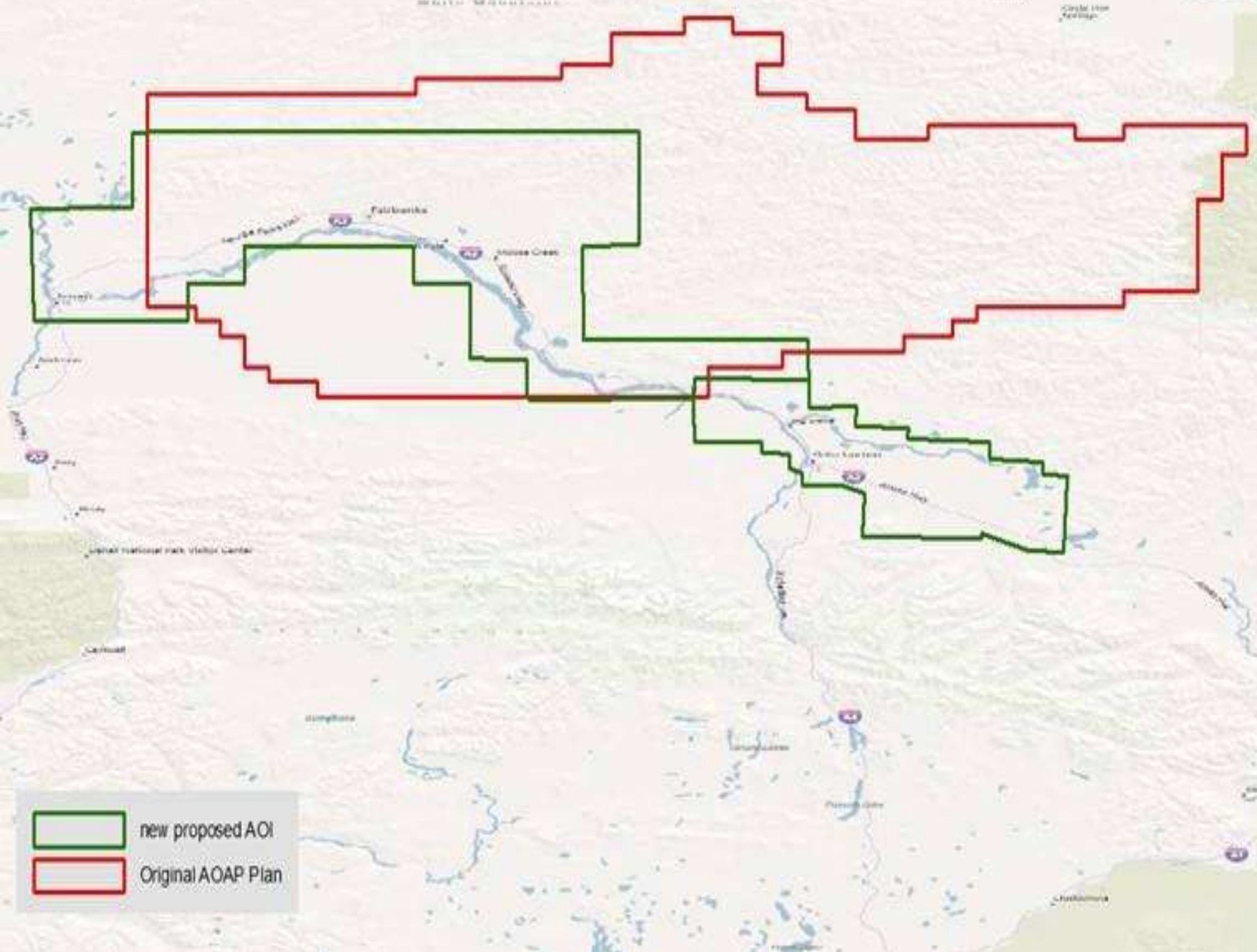
Anchorage = 2285 sq km



AOAP Fairbanks, Alaska

Green AOI was used for Acquisition

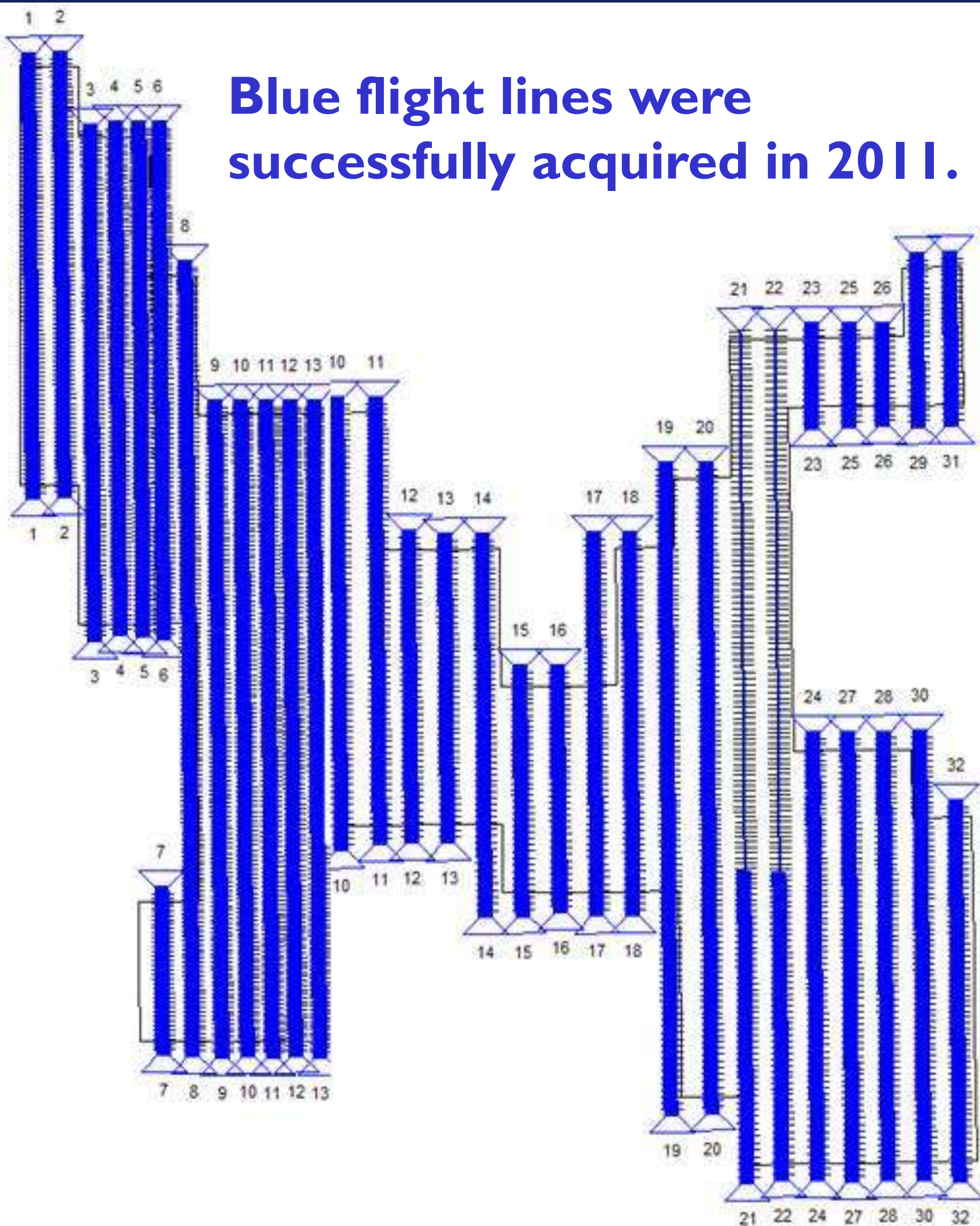
Fairbanks = 2757 sq km



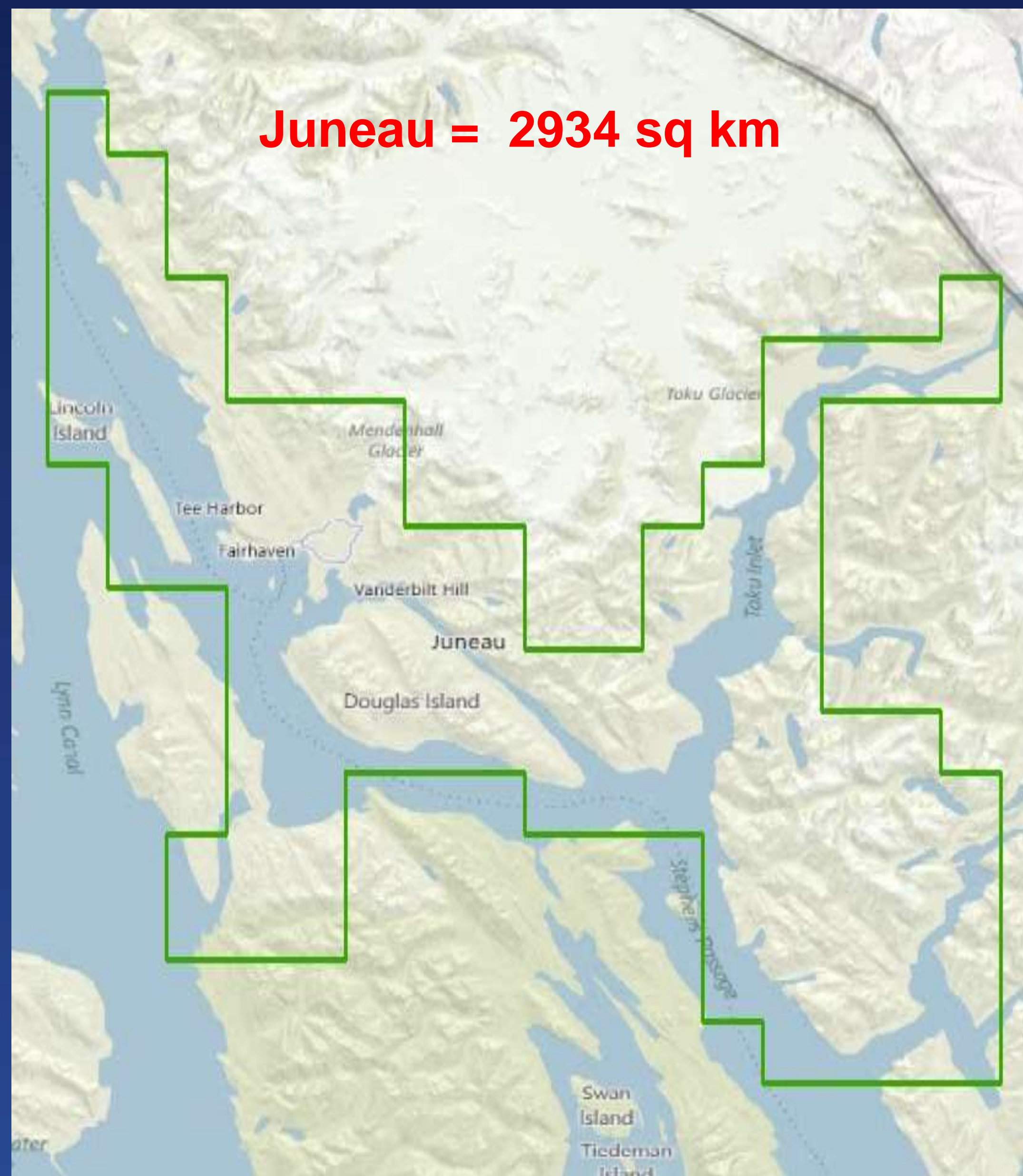
Blue flight lines were
successfully acquired in 2011.

AOAP Juneau, Alaska

Blue flight lines were successfully acquired in 2011.



Juneau = 2934 sq km



AOAP Alaska Cost

•The following quote is for 4 Band Imagery, 1 Ft. GSD, Enterprise Premium License

Fairbanks = 2757 sq km = \$ 48,247.50

Juneau = 2934 sq km = \$51,345.00

Anchorage = 2285 sq km = \$39,987.50

Total km² = 7976 km²

If all three areas above were purchased then the cost would be \$ 114,056

30 Months after purchase the “Sunset” clause would take effect. Essentially unlimited distribution except to Orthoimagery re-sellers.

•If two or all three AOIs are purchased (5001-10,000 km² range), the pricing for the AOAP 30 Month Sunset EULA would be \$14.30/km² or \$114,056 total.

•If a single AOI is purchased, the 30 Month Sunset EULA pricing would be \$17.50/km² (1001-3000 km² range) or as follows for each of the AOIs.

•NRCS highest priority area is Juneau, Alaska.

Hawaiian Islands Orthoimagery Status DigitalGlobe WorldView-2 Status November 2011



Orthoimagery Delivered and Accepted
Oahu, Kauai, Niihau, Kahoolawe, Maui
and the East End of Hawaii



- **USGS, State of Hawaii and USDA have contracted for complete coverage of all 8 major Hawaiian Islands with DigitalGlobe/WorldView-2 Satellite Orthoimagery.**

- **Hawaii will be first state with complete collection with DigitalGlobe – WorldView-2, 8 Band Multi-Spectral Imagery!**

- **Remaining Hawaii Islands will be finished soon with new acquisitions. (March 2012).**

United States Department of Agriculture Natural Resources Conservation Service



Catalog - Windows Internet Explorer

http://browse.digitalglobe.com/imagefinder/catalogListDisplay.do?noCache=1322002118338

Select	Browse Image	Catalog Id	Sensor Vehicle	Acquisition Date	Max On Nadir Angle	Max Off Nadir Angle	Sun Elevation	Cloud Cover Pct	Cloud Cover Pct	Imaging Bands
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North Hawaii
November 28th, 2011

Area outlined in red below is from two combined AOI's contracted to DigitalGlobe

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Acquisition Date: 4/1/02 - 11/24/11
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Cloud Cover: 0 - 20 %

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Map Status

Lon: Area: 7099 km²
Lat: Scale: 1:844,210

Honolulu Pacific Ocean

SUBMIT Email an order inquiry to Customer Service.

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Most Areas with significant cloud coverage has alternate WV-2 Imagery that can be patch.

United States Department of Agriculture Natural Resources Conservation Service



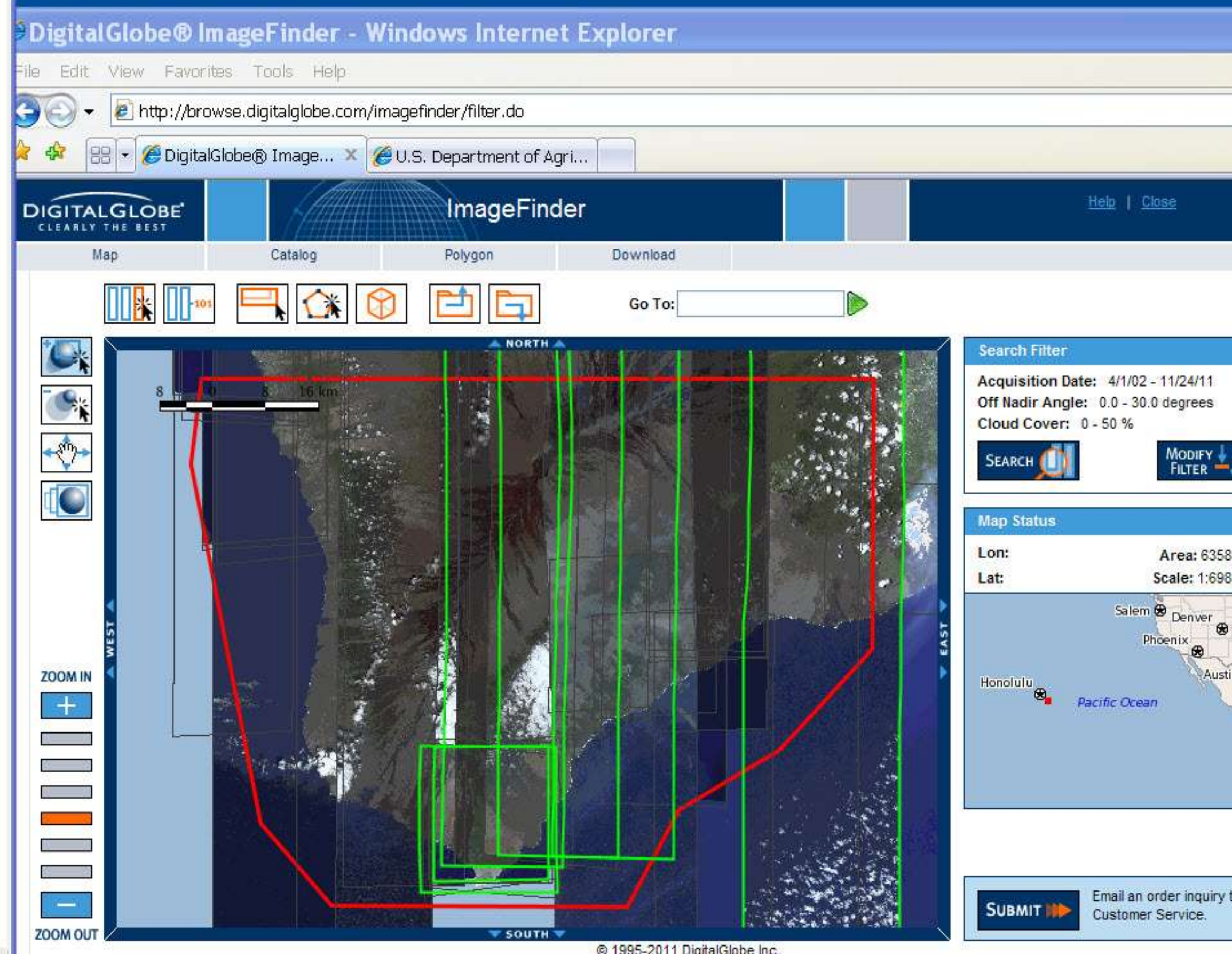
South Hawaii November 28th, 2011

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<input type="checkbox"/>	<input checked="" type="checkbox"/> 4 View	1030010008436600	WV02	2010/12/26	11.16°	11.11°	43.93°	18%	0%	Pan_MS1_MS2
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Most Areas with significant cloud coverage has alternate WV-2 Imagery that can be patch.

Select	Browse Image	Catalog Id	Sensor Vehicle	Acquisition Date	Total Max Off Nadir Angle	Area Max Off Nadir Angle	Area Min Sun Elevation	Total Cloud Cover Pct	Area Cloud Cover Pct	Imaging Bands
<input type="checkbox"/>	<input checked="" type="checkbox"/> 7 View	10300100098AD100	WV02	2011/02/05	18.69°	18.69°	48.21°	1%	1%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 5 View	10300100072DF400	WV02	2010/10/18	19.36°	18.08°	56.09°	3%	7%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 4 View	103001000A5AEE00	WV02	2011/02/24	24.98°	23.14°	54.99°	4%	1%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 2 View	1030010008B33500	WV02	2010/11/09	19.11°	19.11°	49.62°	0%	0%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 1 View	1030010007683900	WV02	2010/12/01	12.58°	12.58°	44.73°	0%	0%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 9 View	1030010008A02A00	WV02	2011/01/22	17.18°	16.01°	46.01°	12%	12%	Pan_MS1_MS2
<input type="checkbox"/>	<input type="checkbox"/> View	10300100048AF100	WV02	2010/03/18	19.27°	18.85°	59.00°	16%	29%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 8 View	1030010005797400	WV02	2010/06/22	19.26°	19.04°	71.08°	5%	6%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 3 View	10300100037A6800	WV02	2009/12/28	27.41°	27.41°	42.64°	24%	24%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 10 View	1030010009D2F700	WV02	2011/02/24	15.85°	13.44°	54.87°	4%	8%	Pan_MS1_MS2
<input type="checkbox"/>	<input checked="" type="checkbox"/> 6 View	103001000AA26B00	WV02	2011/04/28	7.78°	7.78°	74.91°	7%	7%	Pan_MS1_MS2

[Close](#)

Internet

100%

Live Search



Page



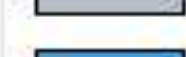
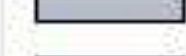
Tools

[Help](#) | [Close](#)

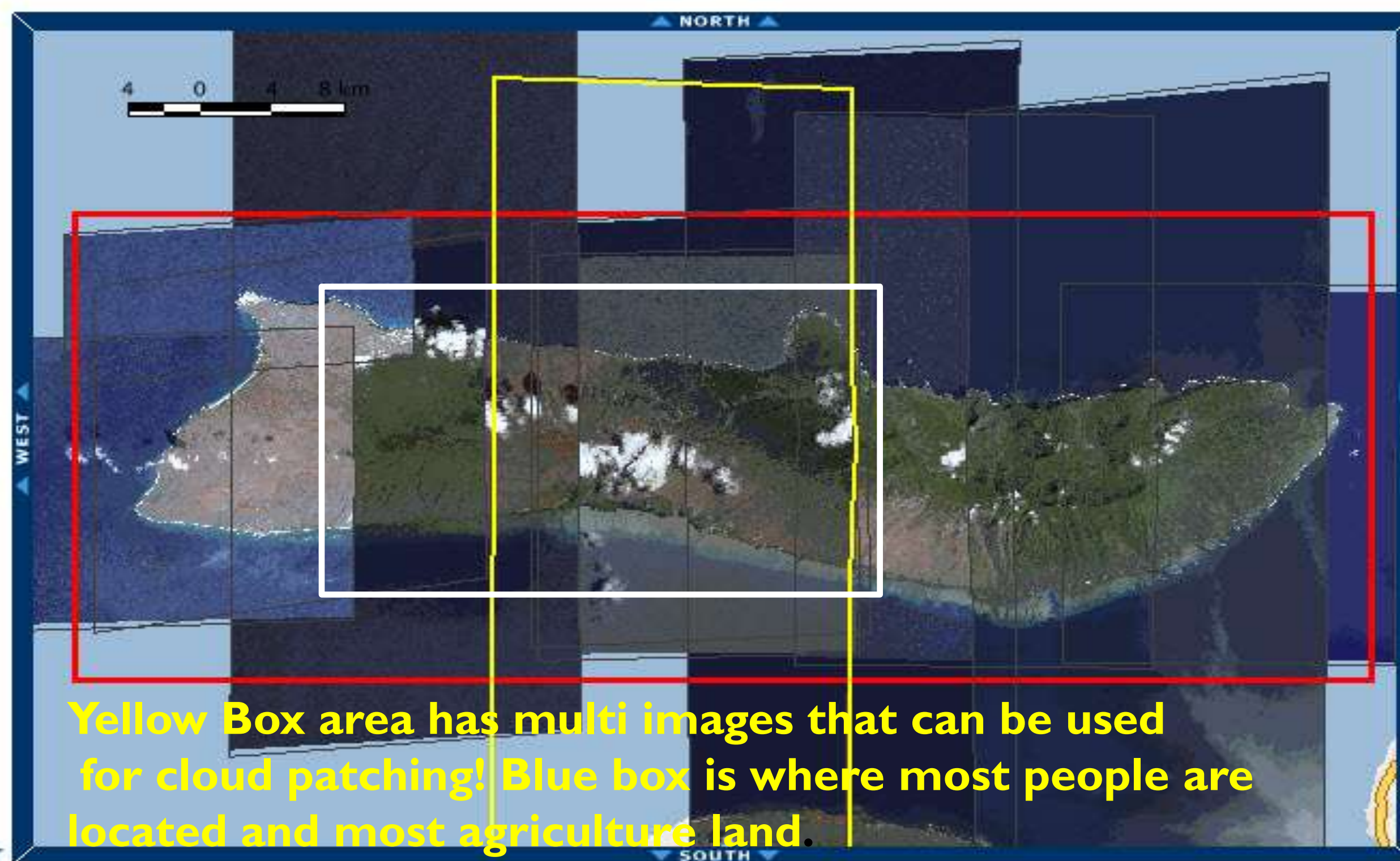
Go To:



ZOOM IN



ZOOM OUT



Yellow Box area has multi images that can be used for cloud patching! Blue box is where most people are located and most agriculture land.

Search Filter

Acquisition Date: 4/1/02 - 11/24/11

Off Nadir Angle: 0.0 - 30.0 degrees

Cloud Cover: 0 - 50 %

SEARCH

MODIFY FILTER

Map Status

Lon:

Area: 1964 km²

Lat:

Scale: 1:424,540



SUBMIT

Email an order inquiry to Customer Service.

USDA-NRCS Orthoimagery Distribution Status Pacific Basin Status

- **USDA has collected approximately ~ 98% of all land mass within the jurisdiction of the United States:**
 - **Guam**
 - **Commonwealth of the Northern Mariana Islands**
 - **Northwestern Hawaiian Islands**
 - **Palau**
 - **American Samoa**
 - **Federated States of Micronesia**
 - **Marshall Islands**
 - **US Trusts (Palmyra, Wake, etc..)**
- **Most islands acquired also contain any visible shallow water reef areas.**
- **All data is Satellite One Meter or higher resolution (DG-QB2, DG-WV2, GeoEye-I)**
- **USDA upgraded most but not all DG-QB2 data to Enterprise Premium License in Fall 2009.**

Distribution List (11/20/11) for USDA-NRCS Orthoimagery for Hawaii & Pacific Basin.
Most data has been distributed by NRCS-NGMC or USGS-Hawaii (Henry Wolter).

- **NRCS - Hawaii**
- **FSA - (Hawaii, APFO-Salt Lake City)**
- **USGS Hawaii(Henry Wolter)**
- **University of Hawaii (Many locations in Hawaii-Oahu, Hilo, Majuro/Marshall Islands)**
- **USFS (4 Location in California, Oregon and Hawaii)**
- **USGS-Rocky Mountain Mapping Center**
- **USGS-Eros Data Center (EDC)**
- **USGS- Pacific Coastal and Marine Science Center (Santa Cruz, CA)**
- **NOAA (Several Locations including South Carolina, Maryland and Hawaii)**
- **DOD - Florida (Soon will receive)**
- **NGA (2 Locations, USGS-EDC and Maryland - Soon)**
- **DHS (FBI, CG, Secret Service and others via USGS in Hawaii)**
- **Pacific Disaster Center (Kihei, Maui and Honolulu, Oahu)**
- **The Natures Conservancy (Several Locations)**
- **West Maui Watershed**
- **Maui County**
- **FAA/SOA Training (IfSAR, Maui-WV2, Kauai-WV2, Nicholas Mastrodicasa)**
- **Island Conservation (David Will, Santa Cruz)**
- **NPS (Several Locations, Maui, American Samoa, Denver etc..)**
- **EPA (Washington DC, Raleigh, NC)**

USDA & NDOP Cooperation of Pacific Basin Orthoimagery

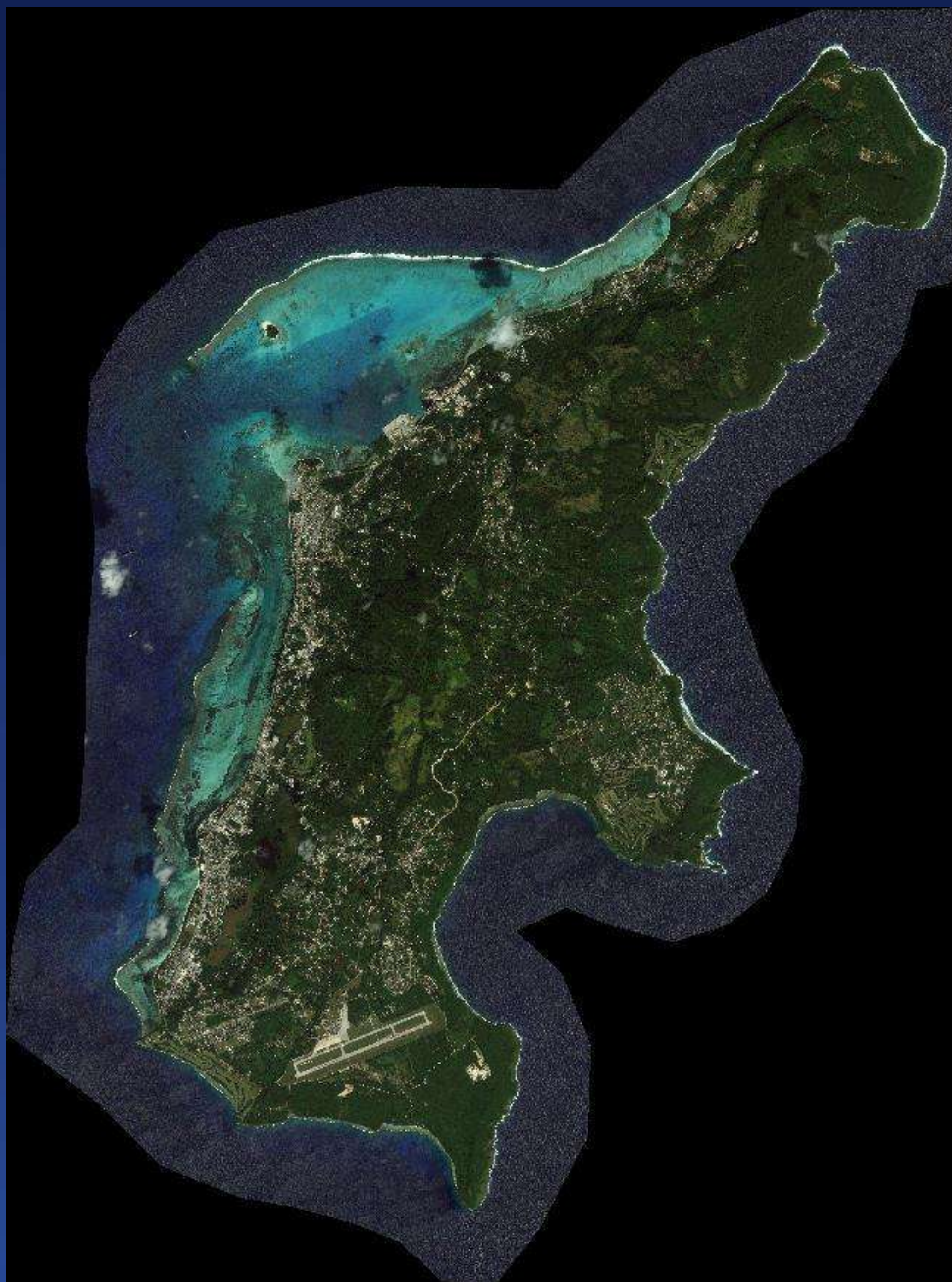
USDA-NRCS/USFS/NOAA 2011 Acquisition Highlights – Pacific Basin

Current List of Pacific Basin Areas to be acquired (August, 2011).

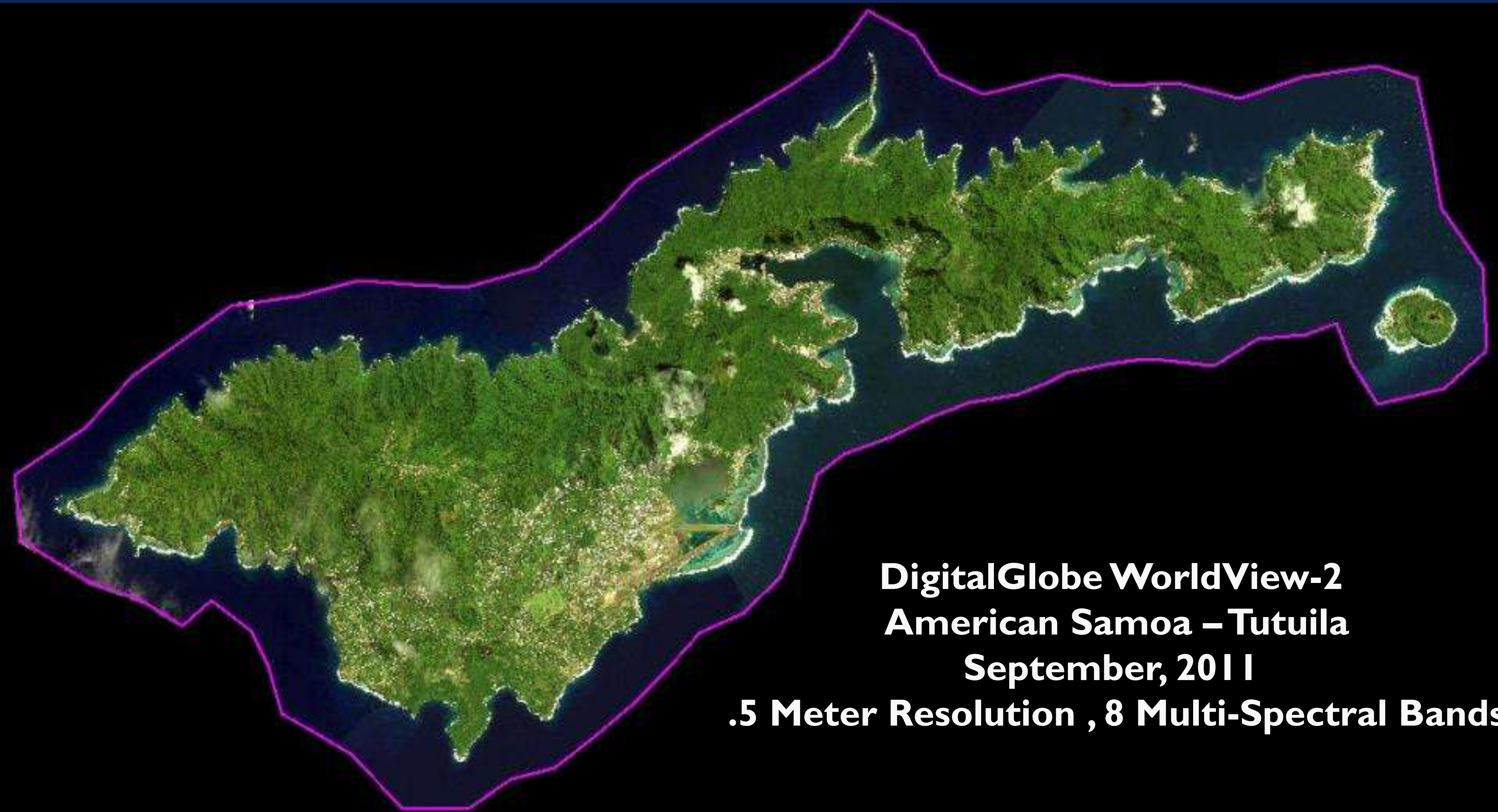
- Guam: High Resolution Orthoimagery and LiDAR**
- American Samoa: (Tutuila, East & West Manua, Swain, Rose) Complete Coverage!!!**
- Commonwealth of the Mariana Islands: Saipan**
- Federated States of Micronesia: Chuuk Islands, Ant Atoll**
- Marshall Islands: Majuro (Capital), Kwajalein, Arno, Ailinglaplap, Namorik, Wotje, Lae, and Jaluit.**

NOAA Collected the following (DG-WV2, 8 Band)

- North West Hawaiian Islands: Midway, French Frigate Shoals, Gardner Pinnacles, Kure Atoll, Laysan Island, Lisianski Island, Maro Reef and Pearl and Hermes Atoll**



**Commonwealth of the Northern Mariana Islands
Saipan Island
USDA-NRCS Orthoimagery
DG-WV2, Feb 2011**



**DigitalGlobe WorldView-2
American Samoa – Tutuila
September, 2011**

.5 Meter Resolution , 8 Multi-Spectral Bands

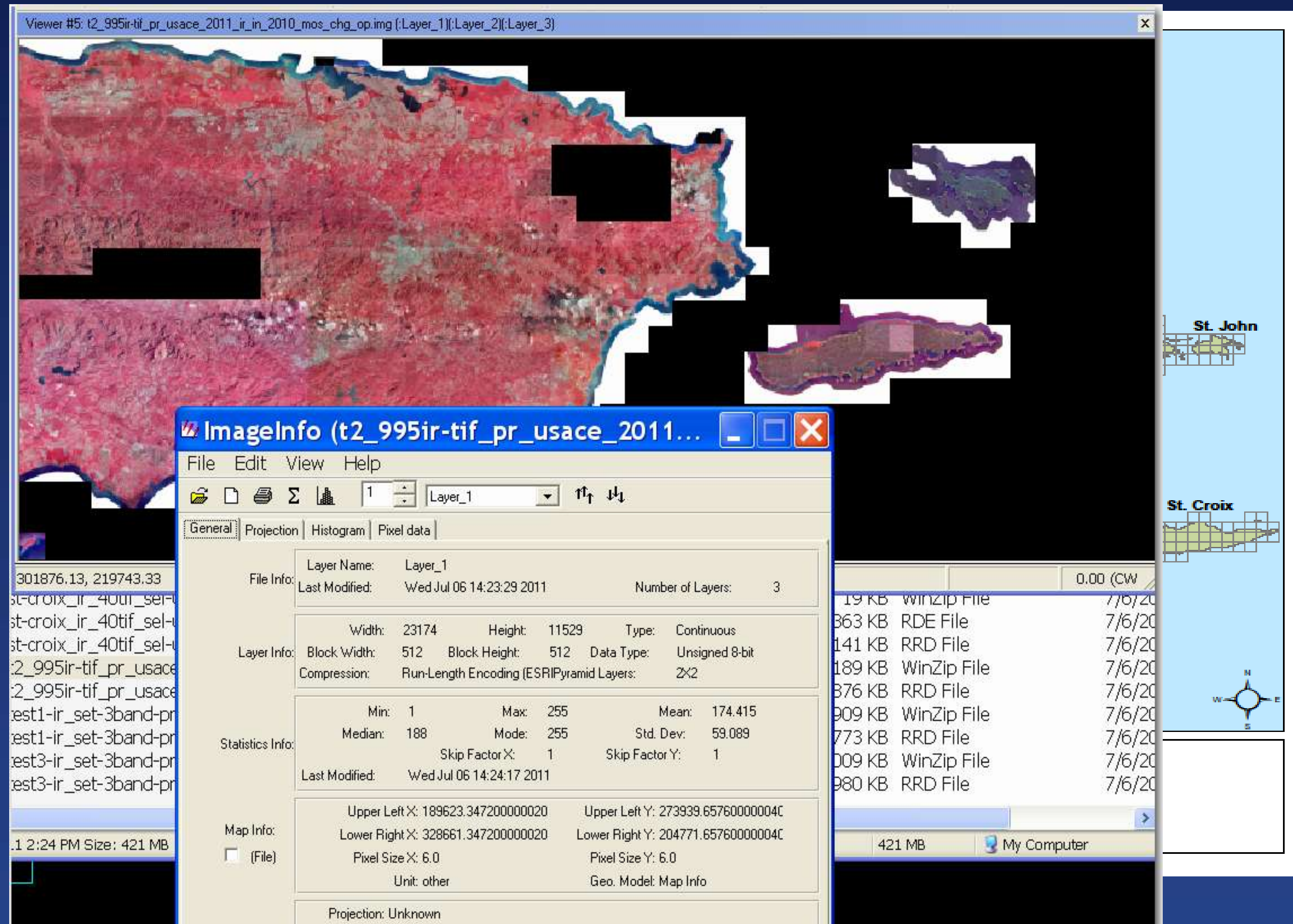
Hawaii and Pacific Basin 2012

NRCS and USFS* priorities for 2012:

- **Palau (Complete Coverage), USFS Funding available**
- **Commonwealth of the Northern Mariana Islands (Remaining Islands)**
- **Federated States of Micronesia, High Population areas**
- **Marshall Islands, Remaining High Population islands not completed in 2011**

USDA is looking for funding partners in the remaining Pacific Basin areas for DG-WV2.

NRCS 2011 Acquisition Highlights – Puerto Rico and US Virgin Islands



- USACOE/300I have released a preliminary test dataset for PR/VI.
- There are many issues with the prelim datasets. USACOE has issued a warning letter to “Kimball” to redo many areas in Puerto Rico. March 2012 is the next deadline for delivery.

USDA-NRCS Orthoimagery Acquisition 2011

1,900,000	NAIP
510,000*	Alaska – New Projects (Yukon Flats, Delta Junction)
150,000	Pacific Basin
2,560,000	Total for Orthoimagery

*** FY 2010 and 2011 Funding**

High Priority for 2012

1) NAIP 2012

2) Alaska (Juneau, Matsu Valley and various other areas)

3) Pacific Basin (Palau, CNMI and other areas)

Wasatch National Forest
End of Presentation

